

Name: _____

Date: _____

Factoring Trinomials with a = 1**Part One: Factor each trinomial completely.**

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| 1. $x^2 + 5x + 6$ | 2. $x^2 - x - 6$ | 3. $x^2 + x - 6$ |
| 4. $x^2 - 5x + 6$ | 5. $y^2 + 7y - 8$ | 6. $y^2 - 9y + 8$ |
| 7. $y^2 + 9y + 8$ | 8. $y^2 - 7y - 8$ | 9. $y^2 - 11y + 30$ |
| 10. $z^2 + 13z + 40$ | 11. $j^2 - 12j + 27$ | 12. $j^2 + 16j + 55$ |

Part Two: Mixed Polynomial Review:

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| 13. $(5g^4 + 9g^3 - g^2 + 11g - 6)$ + $(6g^4 - 10g^3 + 16g^2 - 12)$ | 14. $(-8x^3 - 12x^4 + x^2 + 4x)$ - $(5x^3 + 3x^2 - 15x - 6)$ |
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